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Diag. Cht. No. 1222-2

Department of Commerce and Labor

COAST AND GEODETIC SURVEY

O. H. Tittmann

Superintendent.

U. S. C. & G. SURVEY.
LIBRARY AND ARCHIVES
JUN 1 - 1907
Sig. No.

State: Virginia

DESCRIPTIVE REPORT.

Hydy *Sheet No* 2870

LOCALITY:

West Shore of Chesapeake Bay - Wolf Trap Bay to Mobjack Bay

1906-7

CHIEF OF PARTY:

W J Vinal

2870

POST-OFFICE ADDRESS: STATION C, BALTIMORE, MD.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

2870

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Department of Commerce and Labor

COAST AND GEODETIC SURVEY, SCHOONER "MATCHLESS",

BALTIMORE, MD., MAY 31, 1907.

Mr. O. H. Tittmann,

Superintendent, C.& G. Survey,

Washington, D. C.

Sir:-

I have the honor to report with reference to Sheet No.75, hydrographic resurvey of Chesapeake Bay, which has been forwarded to the Office this day, as follows:

2. This sheet extends from York Spit to Wolf Trap Light House, and includes the entrance to Mobjack Bay. Four Light Houses are located within this area: York Spit, Tue Marshes, New Point Comfort and Wolf Trap.

3. The harbors shown on this sheet, namely, Winter Harbor, Horn Harbor, Pepper Creek and the anchorage at New Point Comfort are available for vessels of small draught only, as the entrances are obstructed by shallow bars. Efforts are being made to have the bar at Horn Harbor dredged. The nearest harbor in this vicinity, which has a good depth of water, and which is much used by the smaller class of vessels running on the Bay, is the entrance of East River, about two miles northwest of Pepper Creek.

4. The principal settlements are at Mobjack and Traders, situated on opposite sides of East River near its mouth. Post Offices are located at Susan and New Point. Telephones through-

out this section are connected with telegraph lines at West Point,Va. One of the Old Dominion S. S. Company's boats makes daily trips to Norfolk,Va.,stopping at Mobjack and Traders and,during the fishing season,at the wharf at New Point Comfort.

5. The land is low and flat and is not well adapted to crops. Fresh water is obtained from driven wells.

6. Oyster planting and dredging and,in its season shad fishing,are the industries mostly followed in this section,and they are quite extensive. Numerous fish pounds,many of which are carried to deep water,are constructed along both shores of New Point Comfort. It is estimated that about 50,000 bushels of oysters were shipped from East River to Baltimore during the last dredging season. Occasionally rafts of logs are made up and towed out,and some sawed lumber is carried from here.

7. It is usual to take up the pound net stakes at the close of the fishing season,but some of them being broken off a little below the surface of the water are not recovered and become a source of danger to small vessels tacking close in shore. Difficulty and delay,in carrying out the plan of the survey,was experienced on account of the number and extent of these pound nets. On the other hand they afforded an excellent opportunity for the erection of signals off shore.

8. A sketch, scale 1:200,000,and statistics of field work on Form No. 21, are enclosed herewith.

Respectfully yours,

W. Ewing Vinal,

Assistant, U.S. G.Survey,

Commanding.

ON ORIGINAL DOCUMENT

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Department of Commerce and Labor:
Coast and Geodetic Survey,
O. H. Tittmann, Superintendent.

Virginia:
Chesapeake Bay,
from York Spit to Wolf Trap Light House.

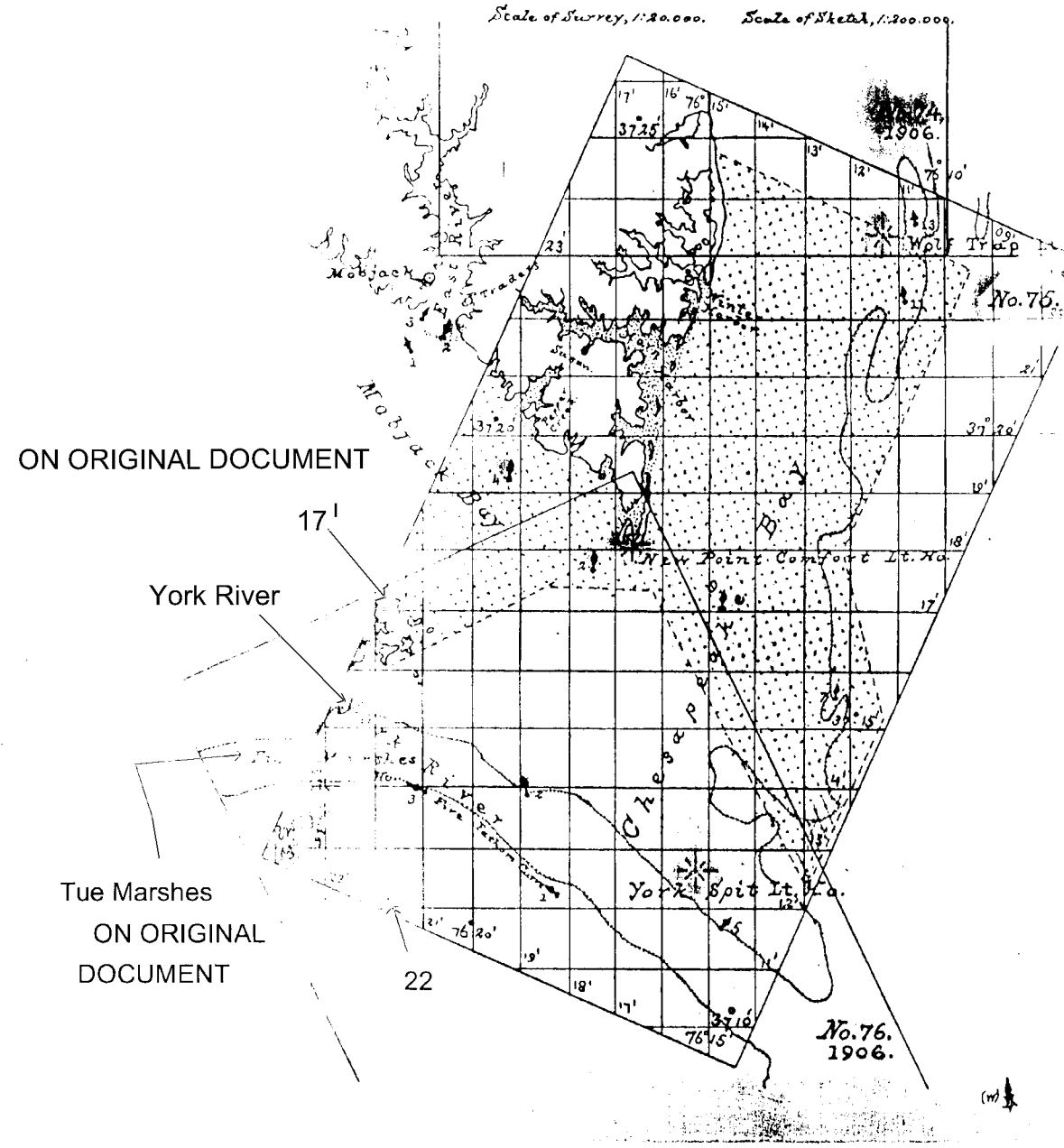
Hydrography surveyed by the party under direction of W. Irving Vinal, Assistant.

1906-1907.

Statute Miles.
Nautical Miles.
Kilometers.

Scale of Survey, 1:20,000. Scale of Sheet, 1:200,000.

ON ORIGINAL DOCUMENT



Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Form 21

U. S. C. & G. SURVEY,
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STATISTICS OF FIELD WORK.

Statistics of field work executed by Lt. Irving Vidal.

Date and place of beginning field work	Mt. Jackson, Va. Dec. 5th. 1906.
Date and place of closing field work	Mt. Jackson, Va. April 1907.
RECONNAISSANCE:	
Area of, in square statute miles	
Lines of intervisibility determined as per sketch submitted	
Number of points selected for scheme	
BASE LINES:	
Primary, length of	
Secondary, length of	
Beach measurements, length of	
Number of days employed in measurements of base	
Number of days employed in remeasurements	
TRIANGULATION:	
Area of, in square statute miles	
Signal poles erected, number of	
Observing tripods and scaffolds built, number of	
Observing tripods and scaffolds built, heights of	
Days occupied in opening and verifying lines of sight, number of	
Stations occupied for horizontal measures, number of	
Stations occupied for vertical measures, number of	
Geographic positions determined, number of	
Elevations determined trigonometrically, number of	
LEVELING:	
Elevations determined by leveling, number of	
Lines of leveling, length of	
LATITUDE, LONGITUDE, AND AZIMUTH WORK:	
Latitude stations occupied, number of	
Pairs of stars observed for latitude, number of	
Average number of observations on a pair	
Longitude stations, telegraphic, number of	
Longitude stations, telegraphic, number of nights on which signals were exchanged	
Longitude stations, chronometric, etc., number of	
Azimuth stations, number of	
Number of nights of observations for azimuth	
Number of stars observed for azimuth	
GRAVITY DETERMINATIONS:	
Number of pendulum stations occupied	

MAGNETIC WORK:

Land stations occupied for magnetic declination, number of	
Land stations occupied for magnetic dip, number of	
Land stations occupied for magnetic intensity, number of	
Sea stations occupied for magnetic declination, number of	
Sea stations occupied for magnetic dip, number of	
Sea stations occupied for magnetic intensity, number of	
Sea stations at which ship was completely swung, number of	
Magnetic observatory operated for declination variations, number of days	
Magnetic observatory operated for horizontal intensity variations, number of days	
Magnetic observatory operated for vertical intensity variations, number of days	
Magnetic observatory, absolute observations, number of days	
Magnetic observatory, seismological observations, number of days	
Magnetic observatory, atmospheric electricity observations, number of days	
Magnetic observatory, meteorological observations, number of days	

TOPOGRAPHY:

Area surveyed in square statute miles	
Length of general coast-line in statute miles	
Length of shore-line of rivers in statute miles	
Length of shore-line of creeks in statute miles	
Length of shore-line of ponds in statute miles	
Length of roads in statute miles	
Topographic sheets finished, number of	
Topographic sheets, scales of	

Topographic sheets, limits and localities of:

HYDROGRAPHY:

Area sounded in square statute miles	58
Number of miles (statute) run while sounding	503.55
Number of positions determined (double angles)	4573
Number of soundings	17482
Number of tidal stations established	2
Number of specimens of bottom preserved	0
Current stations, number of	0
Hydrographic sheets finished, number of	1
Hydrographic sheets, scales of	1:20,000.

Hydrographic sheets, limits and localities of:

37° 12' 00" to 37° 24' 45" N. Lat.; 76° 09' 45" to 76° 21' 45" W. Long.
Chesapeake Bay from York Spit to Wolf Trap Lt. Hse.

including the entrance of Mobjack Bay.
Soundings Sheets Nos. 74 and 76.

PHYSICAL HYDROGRAPHY:

Number of soundings on cross-sections	
Current stations, number of	
Deep-sea current stations, number of	
Deep-sea surface current observations, number of	
Deep-sea subsurface current observations, number of	
Number of observations of density of water	
Number of observations of temperature of water	
Tidal stations established, number of	
Miles (statute) run in deep-sea sounding	
Number of deep-sea soundings	
Number of specimens of bottom preserved	

Locality of work; results, how shown, etc.:

Means of transportation (if vessel, give name):

U S. Schr. Matchless

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U. S. COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent,

U. S. C. & G. SURVEY.
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~~HYDROGRAPHY~~

~~OF~~

West Shore of

CHESAPEAKE BAY, ~~IN THE VICINITY OF~~

Wolf Trap to MOBJACK BAY, VA.

By the

Party in Charge of W. Irving Vinal, Assistant,

SCHOONER "MATCHLESS.

Begun December 5, 1906.

Ended A p r i l 22, 1907.

Scale $\frac{1}{20000}$

STATUTE MILES.

OBSERVERS.

Mate, James E. Marsh, Aid, Arthur Crowell,

Chief Writer, John W. Clift.

RECORDERS.

Aid, Arthur Crowell, Temporary Aid, E. G. Smith,

Chief Writer, John W. Clift.

LEADSMEN.

Sailmaker's Mates, John Christensen, Andrew Isaacson,

Quartermasters 3d.Cl.,A. Engdahl, H. Arnesen, Seaman

H. W. Godsey.

TIDE OBSERVERS.

S.M.M.,A. Isaacson, Q.M.3Cl.,H. Arnesen, Seamen, H. W.

Godsey, Herman Konig, Hans Marino Andersen,

STATISTICS.

DATE 1908 & 1909		Number Of- Letter	Hol.	Angles	Soundings	Miles	Vessel
Dec.	5	a	1	72	299	8.8	Steam Launch
	10	b	1	113	433	13.5	
	12	c	1	98	371	10.6	
	13	d	1	59	157	4.7	
	15	e	1	192	748	20.4	
	17	f	2	32	129	3.2	
Jany.	3	g	2	111	433	12.9	
	5	h	2	278	968	29.5	
	7	i	2	164	712	18.8	
	8	j	3	34	127	3.5	
	8	k	3	149	571	15.7	
	9	l	3	182	702	18.9	
	10	m	3	208	794	22.4	
	11	n	4	190	736	22.8	
	24	o	4	100	326	10.8	
Feby.	13	p	4	72	281	9.0	
	16	r	4	102	379	11.2	
	26	s	5	96	308	11.7	
	27	t	5	58	250	6.5	
	28	u	5	129	479	14.0	
March	4	w	5	195	743	22.3	
	12	x	5	116	410	11.6	
	12	y	6	62	225	6.3	
	15	z	6	88	326	9.0	
	16	A	6	24	74	2.9	
	21	B	6	156	622	17.0	
	26	C	6	110	437	13.0	
	28	D	6	16	53	1.5	
April	5	E	7	78	308	8.5	
	8	F	7	136	537	13.8	
	15	G	7	174	610	19.2	
	16	H	7	132	484	15.9	
	18	I	8	156	548	22.8	
	18	K	8	197	666	21.9	
	20	L	8	171	488	18.3	
	22	M	8	52	191	5.75	
		54	8	4302	15924	473.15	
March	15	a	1	32	167	3.4	Dinghy & Gig
	27	b	1	55	258	6.0	
	28	c	1	44	193	4.8	
	29	d	1	40	277	5.9	
April	18	e	1	34	166	2.2	
	20	f	1	42	299	4.4	
	22	g	1	24	198	3.7	
		7	1	271	1558	30.4	

RECAPITULATION

STEAM LAUNCH	54	8	4302	15924	473.15
DINGHY & GIG	7	1	271	1558	30.4
Total	41	9	4573	17482	503.55